



Technical-approval-with-product certificate K26821/04

Issued 2021-10-15

Replaces K26821/03

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Flexalen 600

STATEMENT BY KIWA

With this technical-approval-with-product certificate, issued in accordance with the Kiwa Regulations for Certification, Kiwa declares that legitimate confidence exists that the products supplied by

Thermaflex Isolatie B.V.

as specified in this technical-approval-with-product certificate and marked with the Kiwa®-mark in the manner as indicated in this product certificate may, on delivery, be relied upon to comply with Kiwa evaluation guideline

BRL-K17401 part A "Flexible piping systems intended for transport of hot and cold drinking water" dated 16-04-2004.

Within the framework of this (technical-approval-with-)product certificate Kiwa does not impose any inspections with regard to the production of other parts of the (product), nor the manufacturing of the (product) itself.

Ron Scheepers
Kiwa

Publication of this certificate is allowed.

Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid.

CERTIFICATE

284190610

Kiwa Nederland B.V.

Sir Winston Churchillaan 273

Postbus 70

2280 AB RIJSWIJK

The Netherlands

Tel. +31 88 998 44 00

Fax +31 88 998 44 20

NL.Kiwa.info@Kiwa.com

www.kiwa.nl

Company

Thermaflex Isolatie B.V.

Veerweg 1

5145 NS WAALWIJK

Postbus 531

5140 AM WAALWIJK

Tel. +31 (0)416 567777



Certification process
consists of initial and
regular assessment of:

- quality system
- product

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TECHNICAL SPECIFICATION

Subject

Flexalen 600

Product characteristics

The product complies to BRL K17401 part A: Flexible piping systems intended for transport of hot and cold drinking water.

The system consists of:

- a pipe package existing of:
 - PB inner pipes (colour: grey) manufactured by Thermaflex Isolatie B.V (certificate K25543);
 - PE isolation layer around the inner pipe manufactured by Thermaflex Isolatie B.V (certificate K40731);
 - HDPE protection pipe around the isolation layer (colour: black) manufactured by Thermaflex Isolatie B.V (certificate K40730);
- electrofusion, socket fusion and mechanical fittings manufactured by Thermaflex Isolatie B.V (certificate K25544 & K26190);
- products for connecting the pipe package to the supply pipe

Specification

The dimensions of the pipe in the table below are part of this certificate.

Nominal inner tube diameter x wall thickness (mm)	Nominal diameter protection pipe, single pipe (mm)	Nominal diameter protection pipe, double pipes (mm)
16 x 2,2	40, 50, 63, 75,90,125	90, 125, 160
20 x 2,8	40, 50, 63, 75,90, 125	90, 125, 160
25 x 2,3	50, 63, 75, 90, 125, 160	125, 160, 200
32 x 3,0	63, 75, 90, 125, 160	125, 160, 200
40 x 3,7	75,90, 125, 160	125, 160, 200
50 x 4,6	75, 90, 125,160	160, 200
63 x 5,8	90, 125, 160, 200	200
75 x 6,9	125, 160, 200	
90 x 8,2	160, 200	
110 x 10,0	160, 200	
125 x 11,4	200	

Remarks: The connections for the inner pipe (electro fusion, butt fusion, socket fusion and press fittings) are made with specialized tools.

Fitness for contact with drinking water



The pipes and fittings used in this system are approved on the basis of the requirements for hygienic aspects set in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" ("Materials and chemicals in the supply of drinking water and warm tap water Regulation"; published in the Government Gazette). The criteria for these hygienic aspects are recorded in the respective product certificates.

MARKING

The products shall be marked with the Kiwa-mark.

Pipes

The minimum required marking on the pipes shall be:

- **KIWA**  or  * + class DH1/ 8 bar;
- the manufacturer's name, trade name, system name, logo or certificate number of accompanying technical approval-with-product certificate of the piping system;
- material identification: PB;
- the build up of the pipe; PB;
- nominal outside diameter and nominal wall thickness in mm;
- production code.





The realization of the marks is as follows: clearly, durable and indelible at intervals of not more than 2 meters.

*) for smaller diameters permitted by Kiwa.

Fittings

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The minimum required marking on the fittings shall be:

- **KIWA**  or on small products  or  or **KK*** or **KK** * (if not possible **KIWA**  only on the smallest packaging unit)**;
- the manufacturer's name, trade name or logo;
- nominal outside diameter of the corresponding pipe;
- production code.

Location of the marks: on every fitting.

The realization of the marks is as follows: clearly, durable and indelible.

The smallest packaging unit of the fittings are provided with at least the following information:

- **KIWA** 
- the manufacturer's name, trade name, system name, logo or certificate number of the accompanying technical approval-with-product certificate of the piping system, according the marking of the belonging pipe;
- material identification if the fitting body is made of plastics;
- nominal outside diameter and nominal wall thickness of the corresponding pipe in mm.

Location of the marks: on every package.

The realization of the marks is as follows: clearly, durable and indelible on every packaging.

*) for small fittings marking with only KK is permitted.

***) only after approval by Kiwa.

The minimum required marking on the protection pipes shall be:

- Kiwa (or Kiwa® word mark);
- the manufacturer's name, trade name, certificate number of the protection pipe or the certificate number of the belonging technical approval (system) certificate.

The realization of the marks is as follows: clearly and indelible at intervals of not more than 2,5 m.

LOGISTICS

Production and assembly of the system is laid down in the annex of the certification agreement.

APPLICATION AND USE

The medium pipes and fittings are designed for drinking water installations with a lifetime of 50 years at an operating temperature profile according to class 2 of NEN-ISO 10508 and an allowable working pressure of maximum 8 bar.

RECOMMENDATIONS FOR CUSTOMERS

Check at the time of delivery whether:

- the supplier has delivered in accordance with the agreement;
- the mark and the marking method are correct;
- the products show no visible defects as a result of transport etc.

If you should reject a product on the basis of the above, please contact:

- Thermaflex Isolatie B.V.

and, if necessary,

- Kiwa Nederland B.V.

Consult the supplier's processing guidelines for the proper storage, transport and processing methods.